

L Number	Hits	Search Text	DB	Time stamp
1	1	("6305426").PN.	USPAT; US-PGPUB	2004/05/26 10:52
2	1775	((138/120) or (138/155) or (138/113) or (138/114)).CCLS.	USPAT; US-PGPUB	2004/05/26 10:53
3	1448	((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.	USPAT; US-PGPUB	2004/05/26 10:53
4	3190	((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.))	USPAT; US-PGPUB	2004/05/26 10:55
5	9	("2521127" "3684320" "4097074" "4116478" "4296953" "5002318" "5613714" "5897146" "6056329").PN.	USPAT	2004/05/26 10:53
6	289935	sleeve	USPAT; US-PGPUB	2004/05/26 10:55
7	15293	pipe with joint	USPAT; US-PGPUB	2004/05/26 10:55
8	1491	(pipe with joint) same flexible	USPAT; US-PGPUB	2004/05/26 10:55
9	459	sleeve and ((pipe with joint) same flexible)	USPAT; US-PGPUB	2004/05/26 10:55
10	407428	pe or polyethylene	USPAT; US-PGPUB	2004/05/26 10:55
11	77	(sleeve and ((pipe with joint) same flexible)) and (pe or polyethylene)	USPAT; US-PGPUB	2004/05/26 10:58
12	382	(sleeve and ((pipe with joint) same flexible)) not ((sleeve and ((pipe with joint) same flexible)) and (pe or polyethylene))	USPAT; US-PGPUB	2004/05/26 11:07
13	3172	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible)))	USPAT; US-PGPUB	2004/05/26 11:08
24	8	("2249848" "3002775" "4351351" "4923319" "5161828" "5474408" "6056329" "6056471").PN.	USPAT	2004/05/26 11:08
25	512	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve	USPAT; US-PGPUB	2004/05/26 11:09
26	282	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)	USPAT; US-PGPUB	2004/05/26 11:09
27	245	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)	USPAT; US-PGPUB	2004/05/26 11:09
28	83	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene))	USPAT; US-PGPUB	2004/05/26 11:10
29	11200	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) an ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:10

30	27	((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:11
31	56	(((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene))) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene))))	USPAT; US-PGPUB	2004/05/26 11:16
32	26	("0203094" "0428023" "1001842" "1255577" "1276117" "1451800" "1500921" "3329967" "3584822" "3669362" "3869151" "3910277" "4282612" "4396797" "4545081" "4850616" "4865362" "4964573" "5032015" "5184777" "5449206" "5517392" "5778939" "5865378" "RE36883" "6164570").PN.	USPAT	2004/05/26 11:12
33	162	(((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) and ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:16
34	228	(((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:25
35	8	("2848255" "3637239" "3712648" "3938833" "4296953" "4776617" "5192094" "5570910").PN.	USPAT	2004/05/26 11:20
36	11	("3910277" "4703135" "4919458" "5069486" "5129681" "5134251" "5143123" "5215338" "5248170" "5353843" "5449206").PN.	USPAT	2004/05/26 11:21

37	473	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:25
38	358	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:25
39	8	"3131642" "3142498" "3190374" "3203662" "3416819" "3822412" "4293150" "4350372".PN.	USPAT	2004/05/26 11:28
40	831	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 11:31
41	2359	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))	USPAT; US-PGPUB	2004/05/26 12:51
42	46	(((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))) and spherical	USPAT; US-PGPUB	2004/05/26 12:55

43	2313	<p> ((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) and spherical) </p>	USPAT; US-PGPUB	2004/05/26 12:55
44	8	<p> ((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) not ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) and spherical)) and spher\$ </p>	USPAT; US-PGPUB	2004/05/26 12:56

45	2305	<p> ((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) and spherical)) not ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) not (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and sleeve) or (((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or (((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pipe with joint)) or ((((((((138/120) or (138/155) or (138/113) or (138/114)).CCLS.) or ((((285/31) or (285/145.3) or (285/145.4) or (285/402) or (285/302) or (285/123.12)).CCLS.)) not (sleeve and ((pipe with joint) same flexible))) and (pe or polyethylene)))))) and spherical)) and spher\$) </p>	USPAT; US-PGPUB	2004/05/26 12:56
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